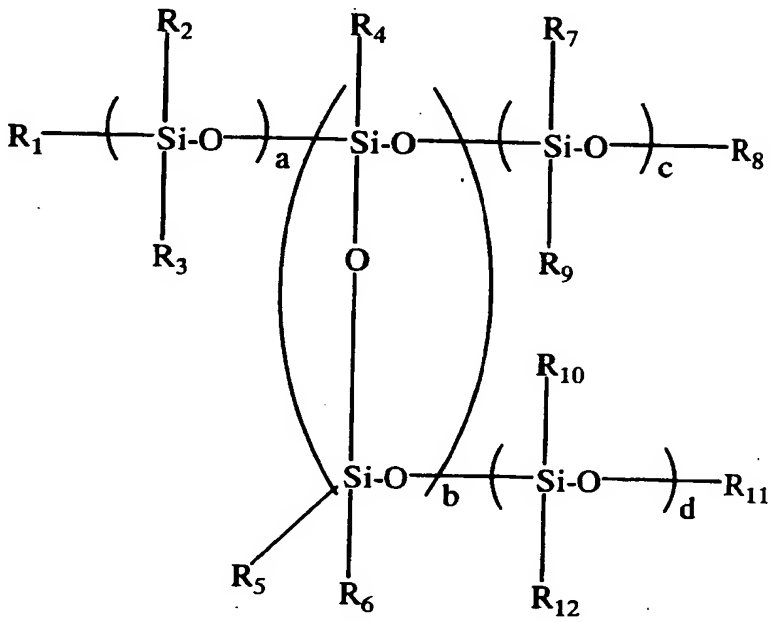
ABSTRACT OF THE DISCLOSURE

The solid electrolyte, wherein the solid electrolyte is formed by making a thin film containing at least one of a polysilane which is soluble in organic solvent and a silicone compound, to contain a metal salt compound such as $LiBF_4$, wherein the silicone compound is represented by the following general formula (1)



...(1)

and by baking this thin film at a temperature of, for example, 400°C or higher (wherein R_1 to R_{12} are groups selected from the group consisting of aliphatic hydrocarbon groups containing 1 to 10 carbon atoms, for a part of which a halogen group or a glycidyloxy group may substitutes, aromatic hydrocarbon groups containing 6 to 12 carbon atoms and alkoxy groups containing 1 to 8 carbon atoms and may be

identical with or different from one another, and a, b, c and d are integers including 0 and satisfy a relationship of $a + b + c + d \geqq 1$).